

FIG. 1

OPTICAL PROXIMITY EFFECT

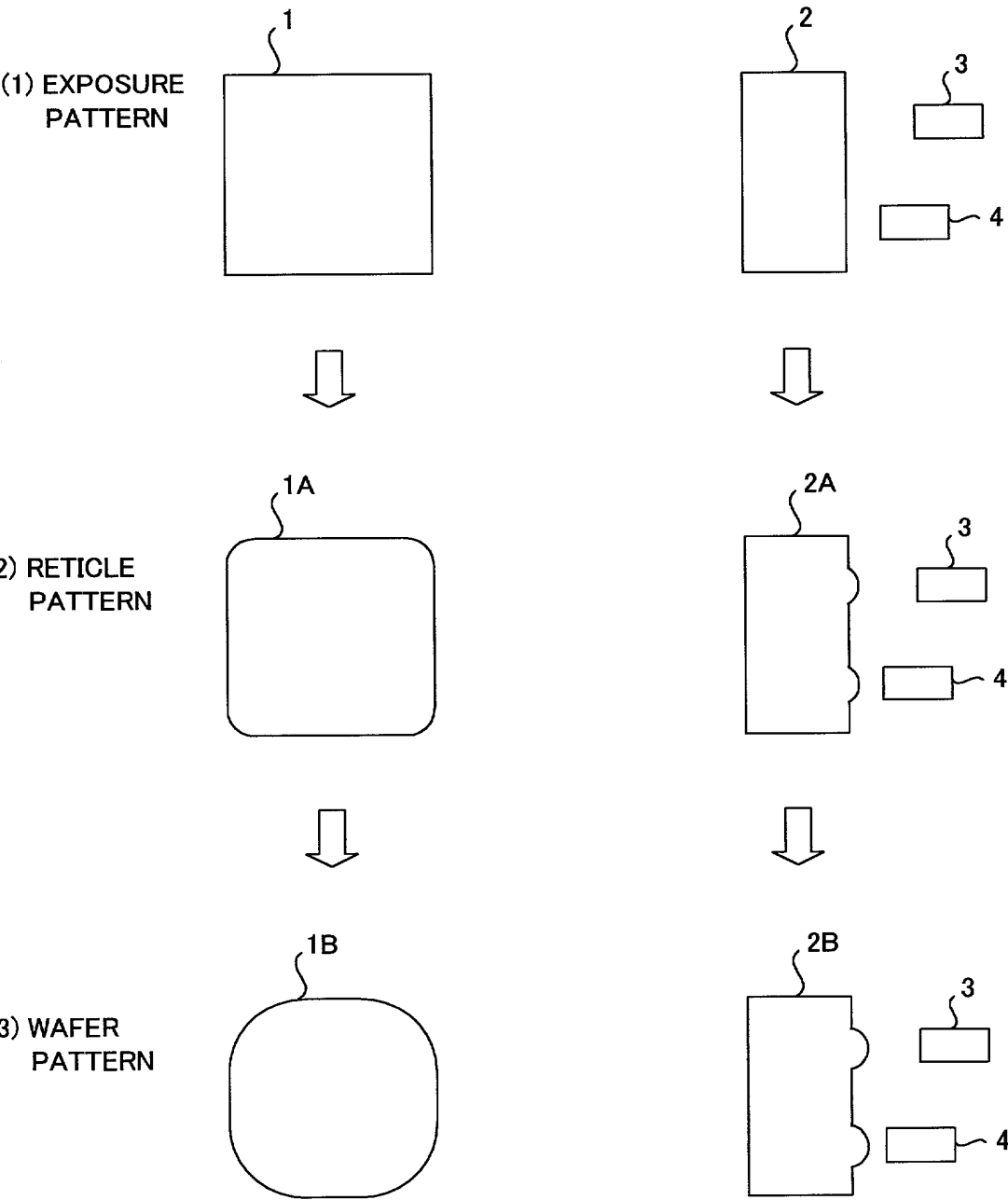
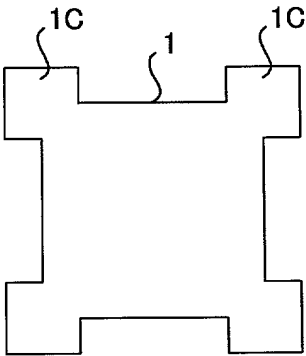


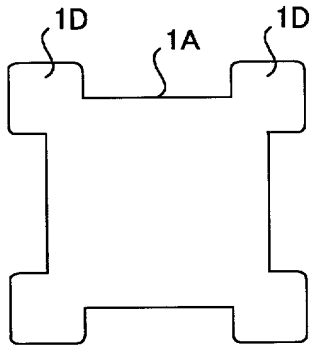
FIG. 2

OPTICAL PROXIMITY CORRECTION

(1) EXPOSURE  
PATTERN



(2) RETICLE  
PATTERN



(3) WAFER  
PATTERN

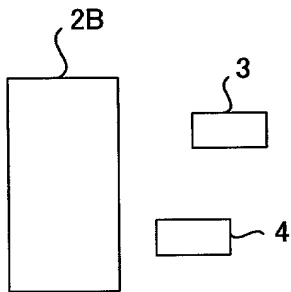
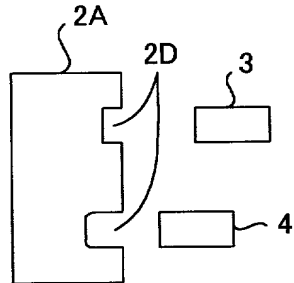
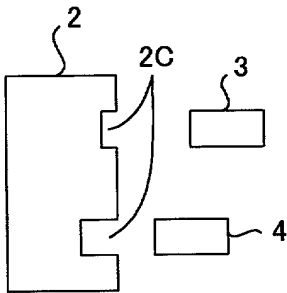
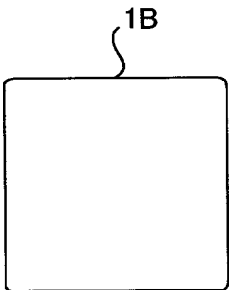
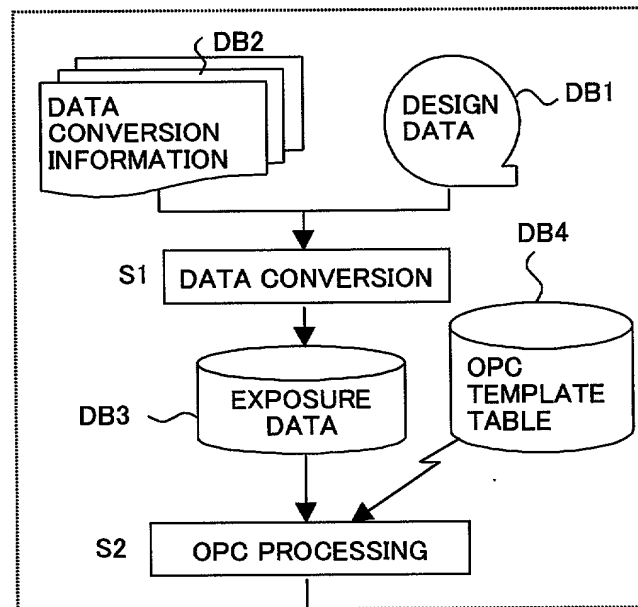


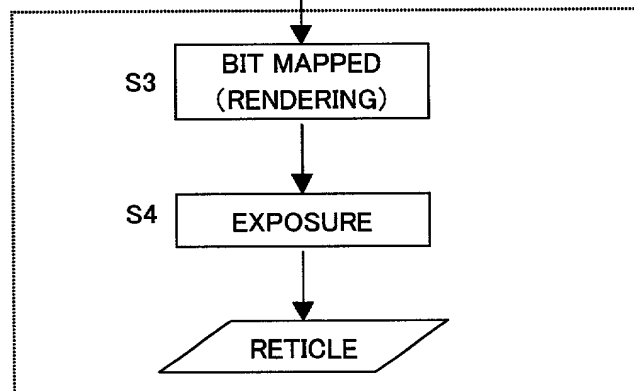
FIG. 3

## FIRST OPC PROCESSING

### <EXPOSURE DATA PROCESSING APPARATUS>

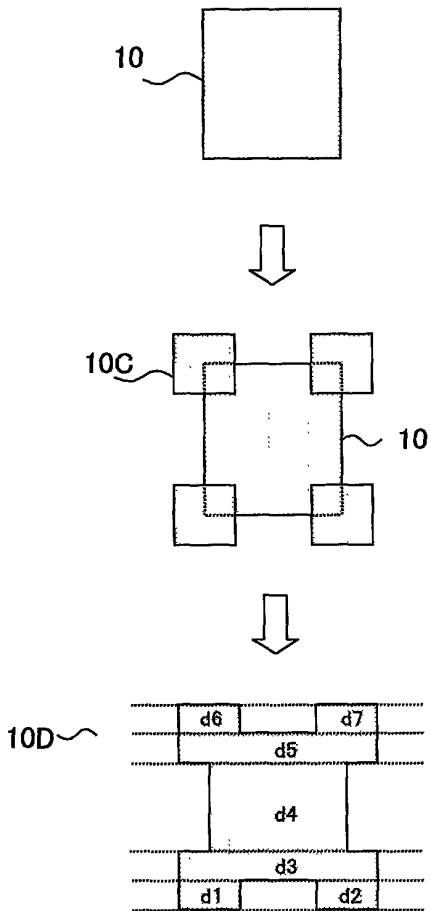


### <EXPOSURE APPARATUS>

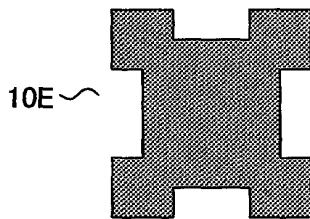


# FIRST OPC PROCESSING

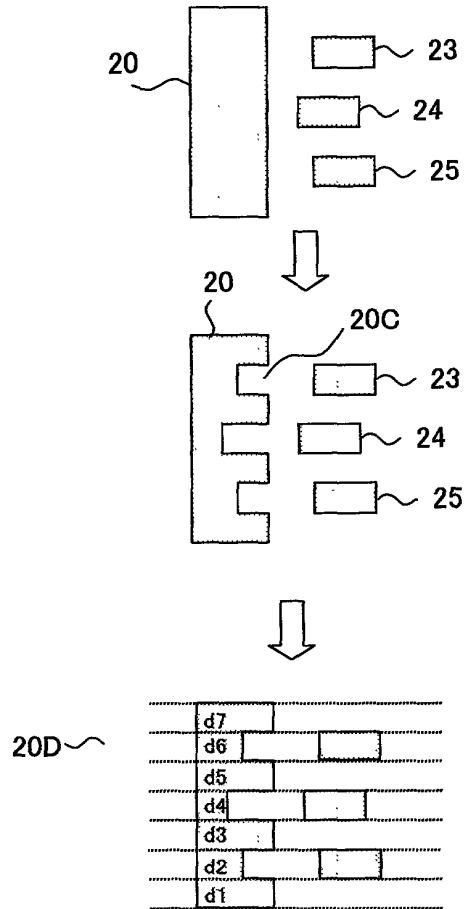
## FIG. 4A



EXPOSURE,  
DEVELOPMENT



## FIG. 4B



EXPOSURE,  
DEVELOPMENT

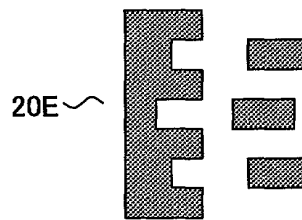
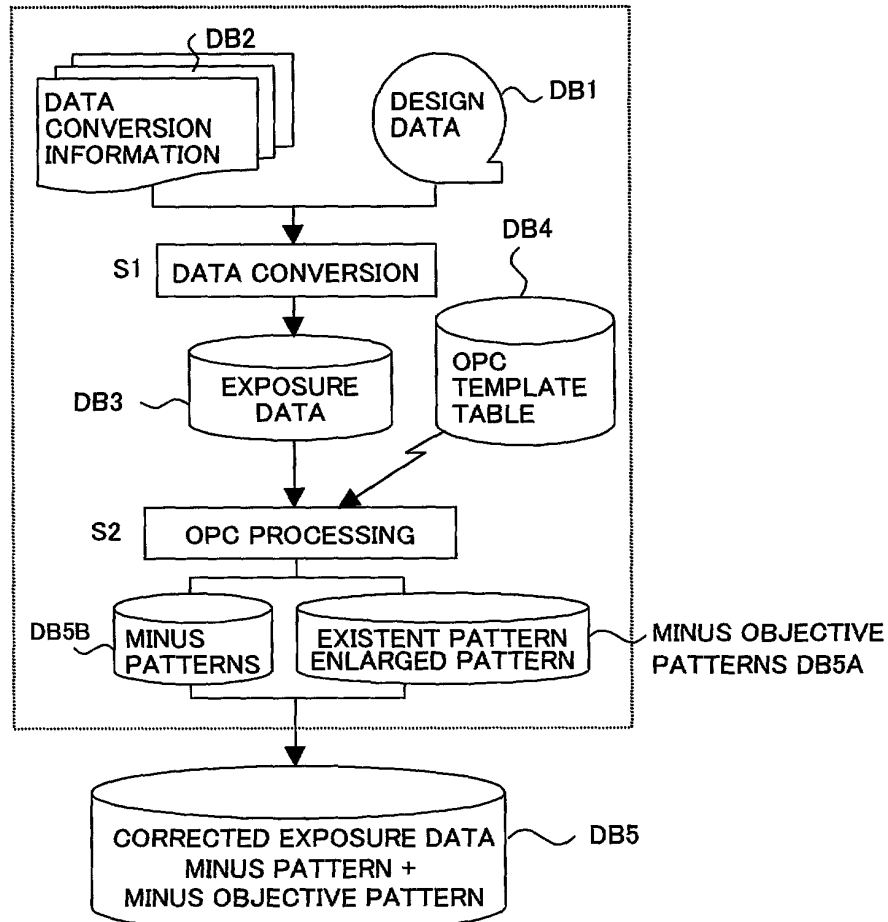


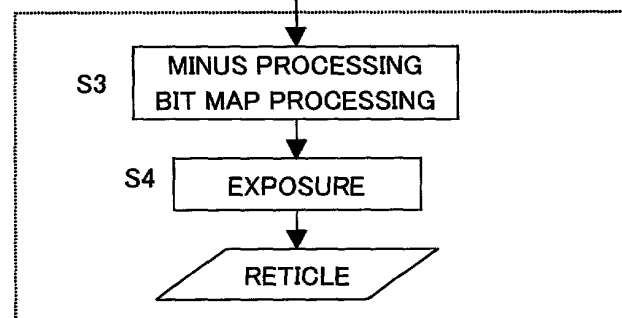
FIG. 5

# SECOND OPC PROCESSING

## <EXPOSURE DATA PROCESSING APPARATUS>

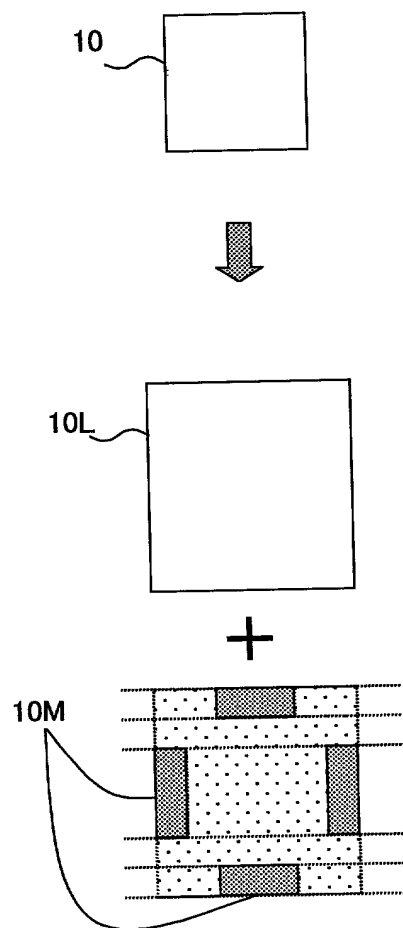


## <EXPOSURE APPARATUS>

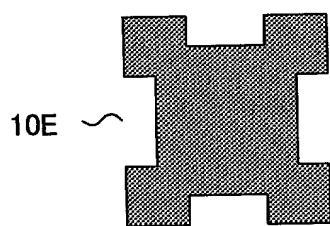


# SECOND OPC PROCESSING

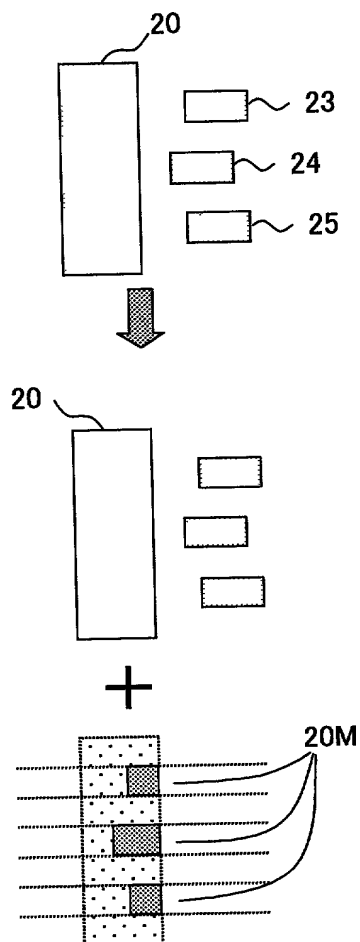
## FIG. 6A



EXPOSURE,  
DEVELOPMENT



## FIG. 6B



EXPOSURE,  
DEVELOPMENT

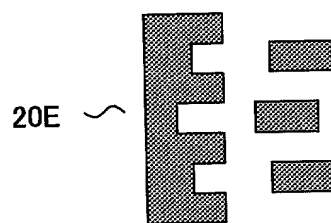


FIG. 7

# OPC PROCESSING

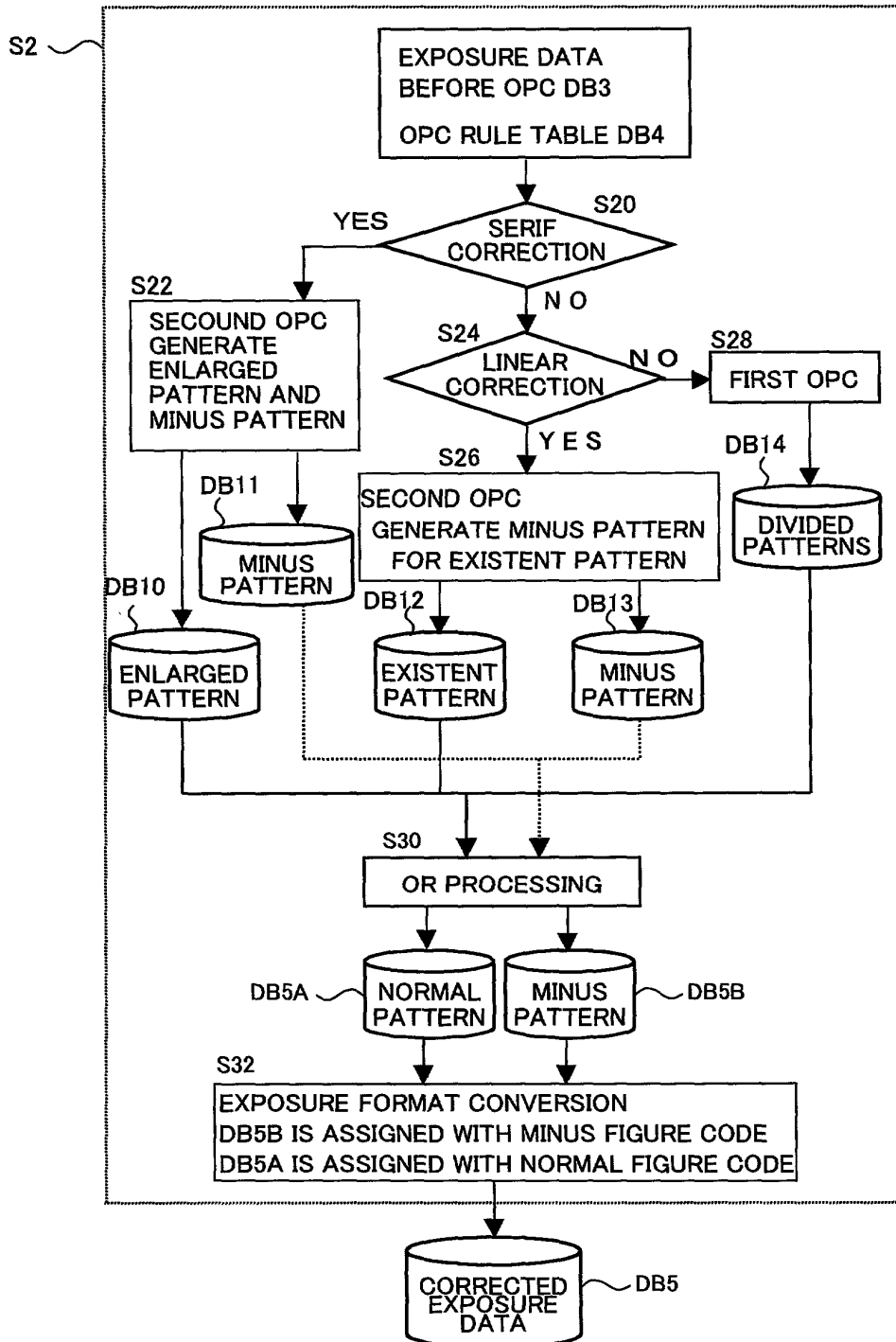


FIG. 8A

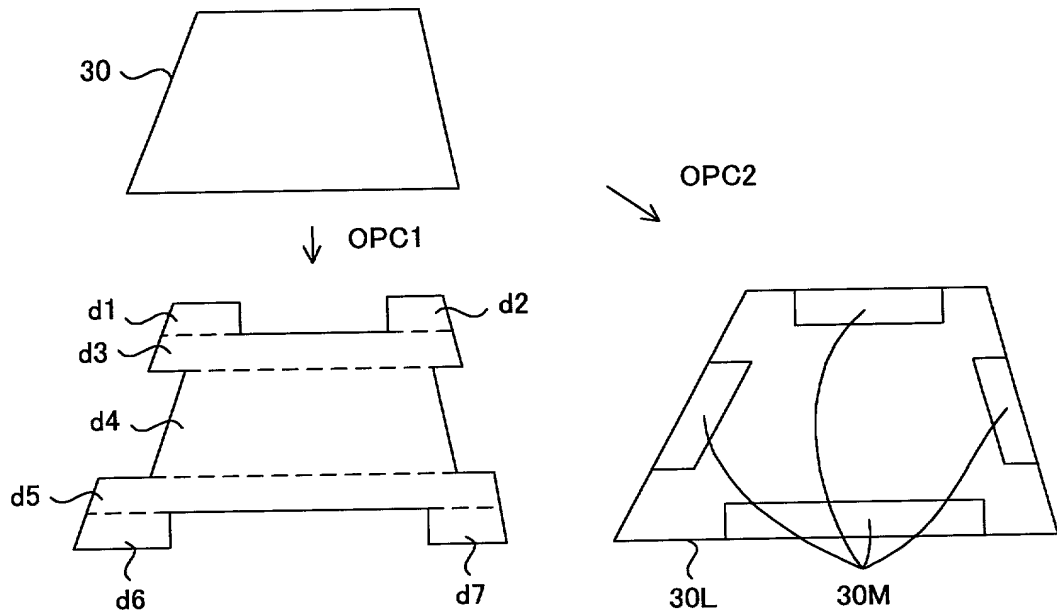


FIG. 8B

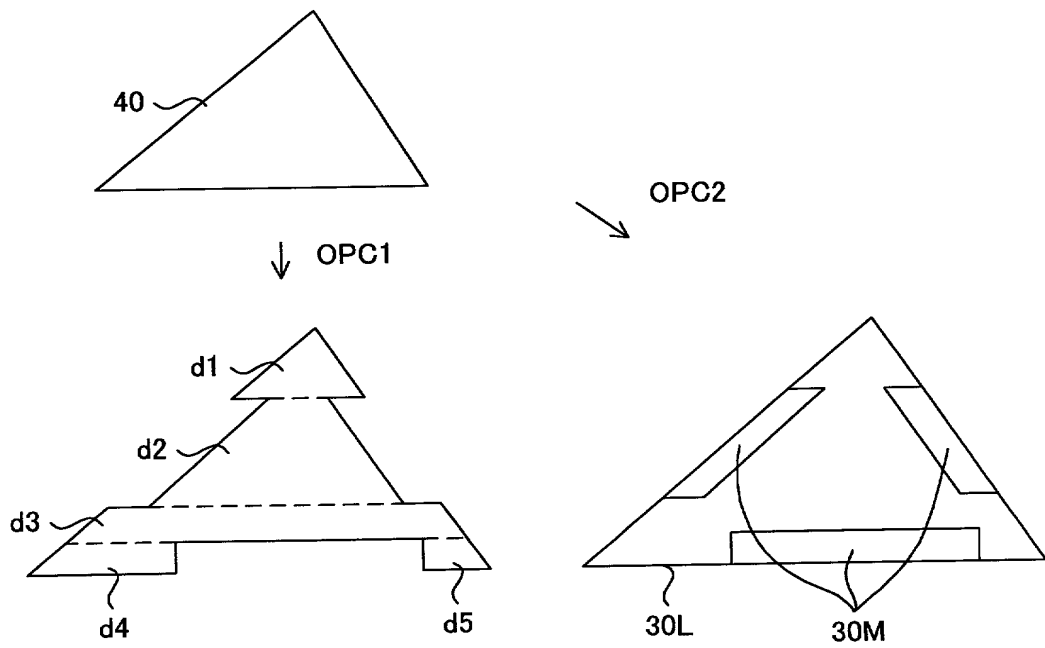




FIG. 9A

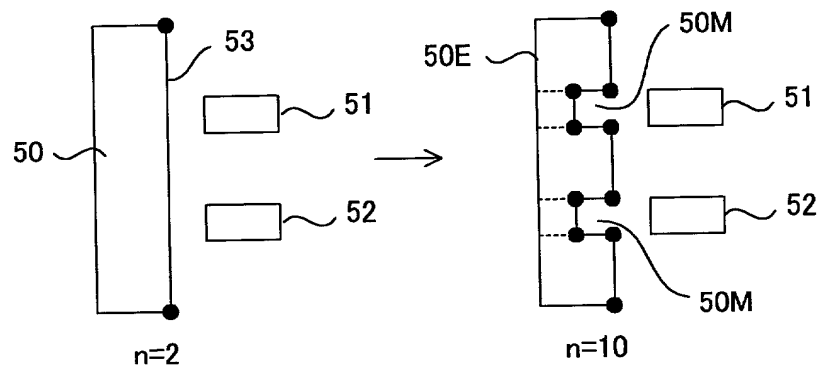


FIG. 9B

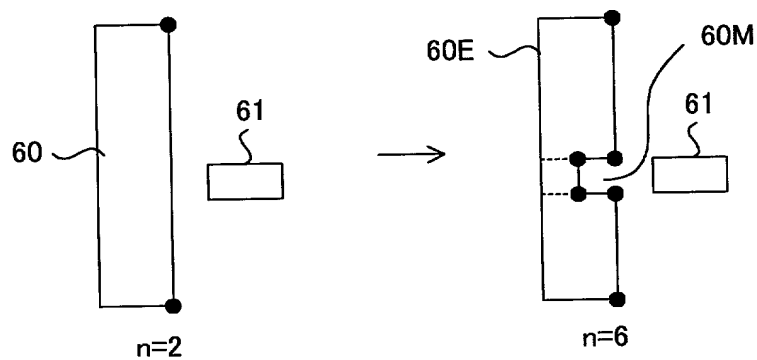


FIG. 9C

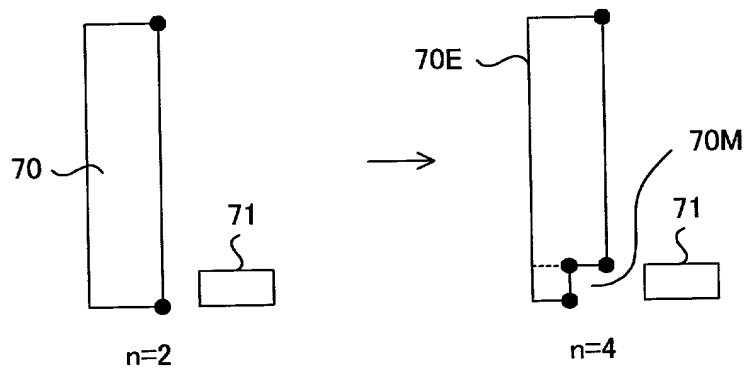


FIG. 10

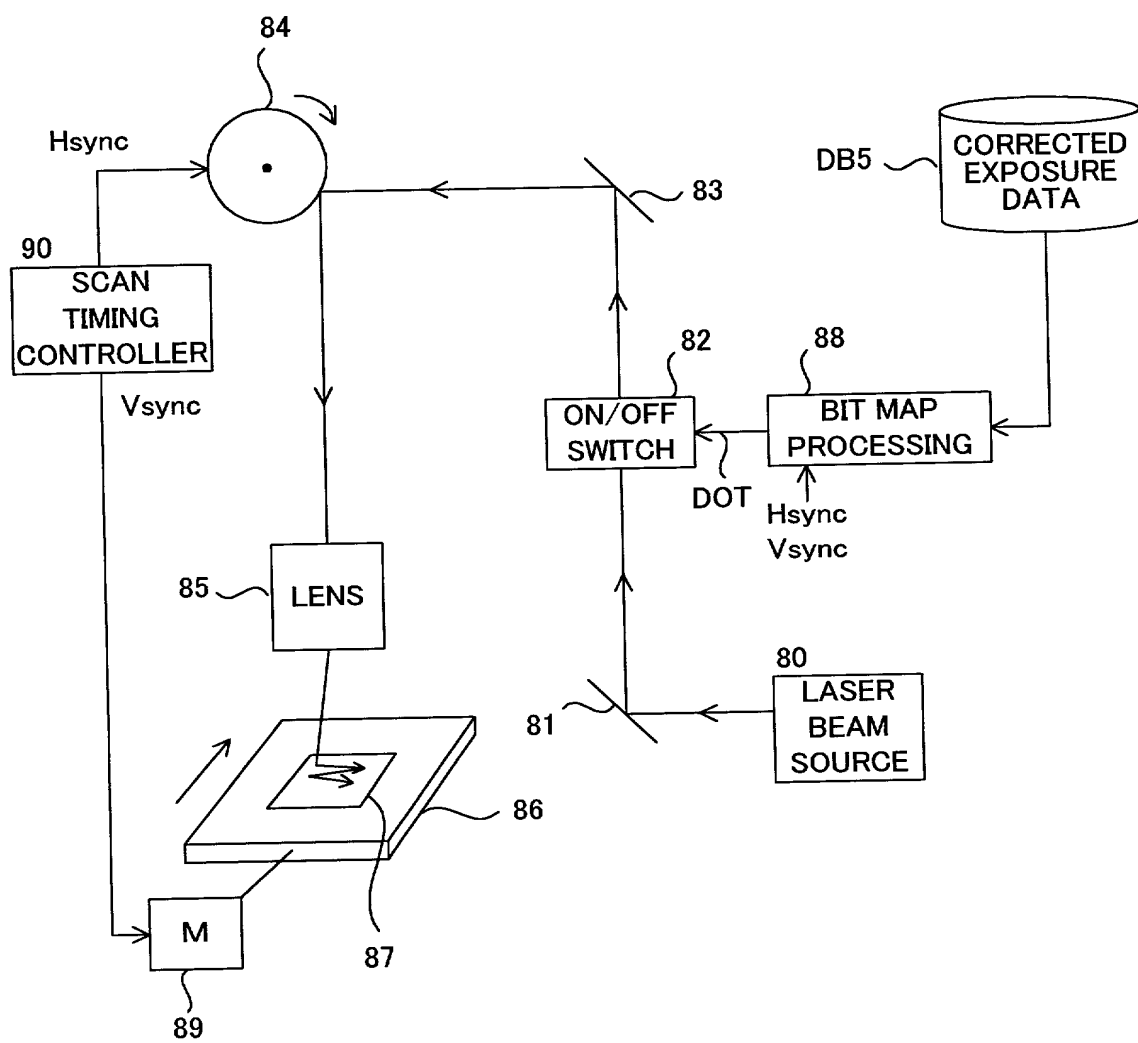


FIG. 11

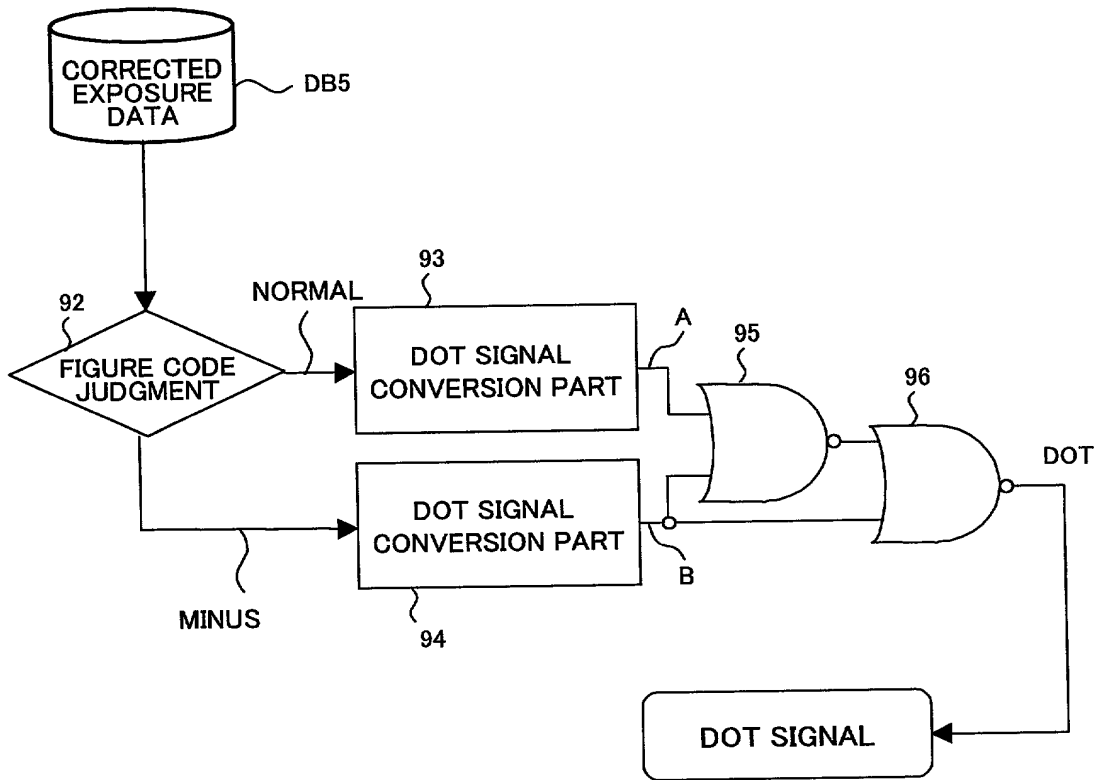


FIG. 12

A	B	DOT SIGNAL
0	0	0
0	1	0
1	0	1
1	1	0